

PROJECT 242535995

Grant Title : Propagation and Reintroduction of *Mangifera casturi* Kosterm. in South Kalimantan (Indonesia).
Project Focus : Conservation of an endemic species classified as Extinct in the Wild
Supported by : The Mohamed bin Zayed Species Conservation Fund
Period : January 2025 – January 2026
Project Coordinator : Range Harnata Palodang

This document provides supporting evidence of activities and results achieved under the *Mangifera casturi* conservation project implemented in South Kalimantan. It is intended to complement the official final report submitted to the Mohamed bin Zayed Species Conservation Fund by presenting concise visual and descriptive documentation of key project stages, outcomes, and outreach efforts.

The documentation highlights the practical implementation of core conservation activities, including ex-situ seedling propagation, reintroduction into suitable natural habitat, post-planting monitoring, and conservation education. These activities were designed to support the recovery of *Mangifera casturi*, an endemic species that is currently classified as Extinct in the Wild, and to strengthen long-term conservation efforts through both ecological and social approaches.

In addition to field-based activities, this document also captures public outreach and awareness-raising efforts conducted through offline and online conservation education, institutional communication channels, and social media platforms. These outreach components were integrated into the project to ensure broader dissemination of conservation messages and to encourage active engagement from students, young generations, and the wider public.

Overall, this supporting documentation serves as a visual and narrative record of project implementation, demonstrating accountability, transparency, and the effective use of grant funding. It provides additional context to the reported outcomes and illustrates how the project's activities collectively contribute to the long-term conservation and recovery of *Mangifera casturi*.

1) EX-SITU PROPAGATION



Ex-situ propagation of *Mangifera casturi* was carried out through a combination of conventional nursery-based seed propagation and in vitro tissue culture techniques. These complementary approaches were applied to increase propagation success and ensure the availability of high-quality planting material. Routine seedling maintenance, including watering, fertilization, and pest control, was conducted to support optimal growth. As a result, a total of 350 healthy seedlings were successfully produced and prepared for subsequent reintroduction into suitable habitats.

2) REINTRODUCTION TO NATURAL HABITAT



Reintroduction of *Mangifera casturi* seedlings was conducted in a suitable natural habitat in Tapin Regency, South Kalimantan, Indonesia, as part of efforts to restore wild populations. A total of 64 healthy seedlings were planted during the early September planting phase. The number of seedlings planted at this stage was intentionally limited due to unusually dry and hot weather conditions, to ensure optimal seedling survival and reduce planting risks. The remaining seedlings are being maintained in the nursery and will be reintroduced gradually under more favorable environmental conditions. A location map of the reintroduction site is provided to support site-based documentation.

3) POST-PLANTING MONITORING



Post-planting monitoring was conducted one month after reintroduction to evaluate the early establishment of *Mangifera casturi* seedlings. Monitoring activities included weed removal around planting sites, measurement of seedling height and stem diameter, and assessment of overall plant health and growth condition. The results indicated that all 64 reintroduced seedlings survived, achieving a 100% survival rate, with seedlings showing vigorous growth and healthy condition. These findings demonstrate successful early adaptation of the species to the reintroduction site and provide a strong foundation for continued monitoring and long-term conservation outcomes. Post-planting monitoring will continue at three-month intervals to ensure long-term survival and growth performance.

4) CONSERVATION EDUCATION, AWARENESS & OUTREACH



Conservation education and public outreach activities were implemented to strengthen awareness and long-term support for the conservation of *Mangifera casturi*, particularly among the younger generation and academic communities. Offline conservation education was conducted with students of the Biology Department, Lambung Mangkurat University (South Kalimantan), focusing on the ecological importance, conservation status, and restoration efforts for this endemic species.

To expand the reach beyond the project location, online conservation education was delivered through a national biology seminar hosted by Universitas Padjadjaran (West Java), enabling broader engagement with students, researchers, and conservation practitioners across Indonesia. In addition, project activities and key messages were disseminated through institutional websites and social media platforms, further amplifying public awareness and visibility of *Mangifera casturi* conservation efforts. Collectively, these activities contributed to increased public understanding, academic engagement, and support for the long-term conservation of this species.

PROJECT OUTPUT SUMMARY

- A total of 350 healthy *Mangifera casturi* seedlings were successfully produced through ex-situ propagation, providing a strong foundation for species recovery efforts.
- Initial reintroduction was conducted in a suitable natural habitat in Tapin, South Kalimantan, Indonesia, with 64 seedlings planted during the early rainy season. A location map of the reintroduction site was developed to support monitoring, documentation, and future phased planting activities.
- Early post-planting monitoring recorded a 100% survival rate for all 64 planted seedlings one month after reintroduction, indicating favorable site conditions and effective planting practices.
- Conservation education and public awareness activities were delivered through offline and online platforms, and further strengthened through institutional websites and social media outreach, expanding engagement among students, academics, and the wider public.

CONCLUSION

This supporting documentation demonstrates the successful implementation of planned activities and highlights tangible outcomes of the *Mangifera casturi* conservation project supported by the Mohamed bin Zayed Species Conservation Fund. The integrated approach - combining ex-situ propagation, habitat-based reintroduction, post-planting monitoring, and conservation education - has established a strong foundation for the long-term recovery of this species. Continued phased planting and regular monitoring at three-month intervals will further support sustainable conservation outcomes and ensure adaptive management of restored populations.

*All photographs and screenshots presented in this document were taken or produced by the project team as part of project implementation and outreach activities.